

## PATENT ABSTRACTS OF JAPAN

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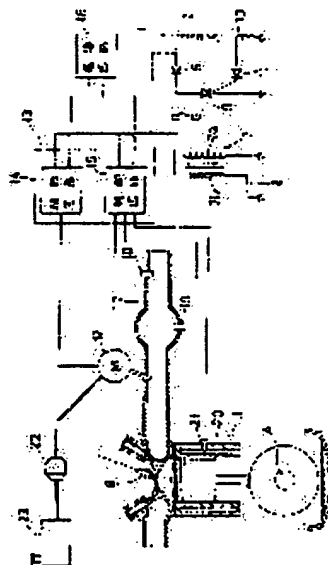
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### (54) FUEL FEED DEVICE FOR INTERNAL-COMBUSTION ENGINE

#### (57)Abstract:

**PURPOSE:** To discharge fuel in response to the requirement by constituting a fuel injection pump injecting fuel into an intake system, using the primary voltage of an ignition device as its driving power supply, and controlling the driving power supply in response to the engine operation condition.

**CONSTITUTION:** A capacity discharge type contactless ignition device 1 has a charging coil 2 rotated synchronously with a crank shaft, and the said coil 2 is connected to an ignition coil 7 via a diode 5 and a capacitor 6. In this case, a fuel injection pump 12 made of a bimorph piezoelectric element is connected between the capacitor 6 and the ignition coil 7 via a control unit 10. This fuel injection pump 12 is used as the primary voltage of the ignition device 1 and is controlled by a control circuit 15 via a drive circuit 14 according to the fuel discharge quantity determined based on the rotating speed signal obtained from the primary voltage and output signals of an intake air temperature sensor 18, a pressure sensor 19 and a water temperature sensor 21.



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